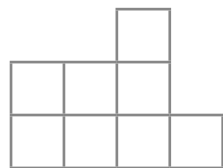White Rose MATHS

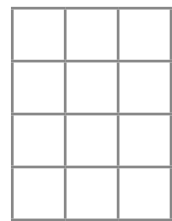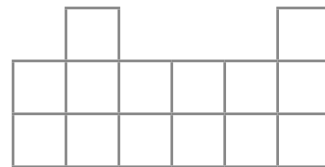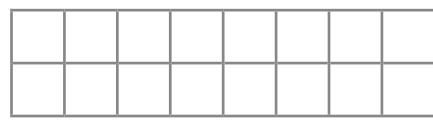# Area, perimeter and volume

Name: _____

1 Tick the shapes that have an area of 16 cm²

Each small square represents 1 cm²
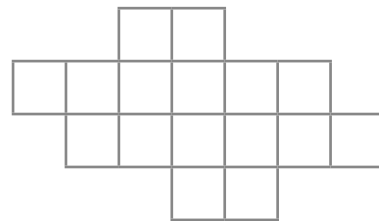
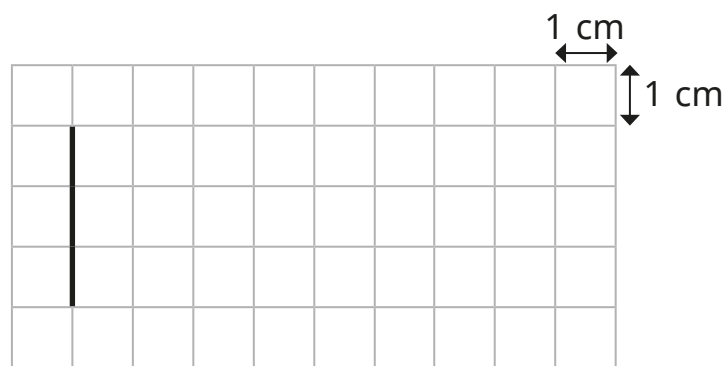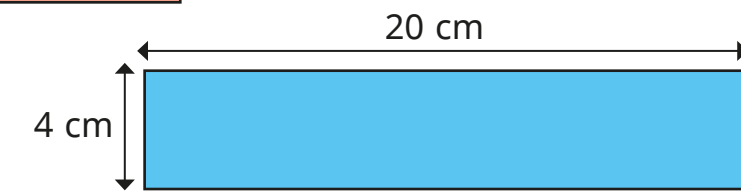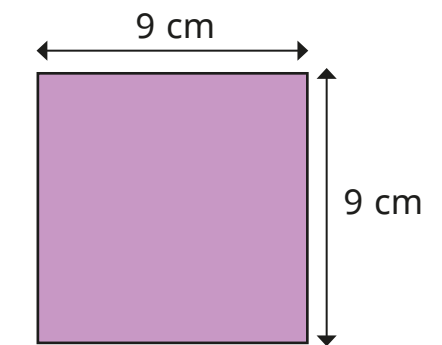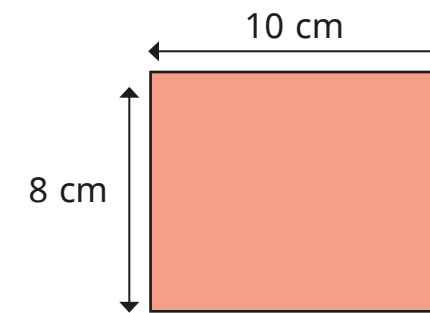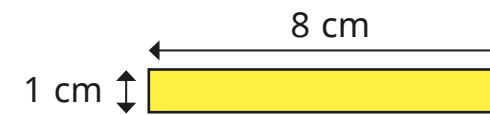**2** The perimeter of a rectangle is 20 cm.

One of the sides has been drawn for you.
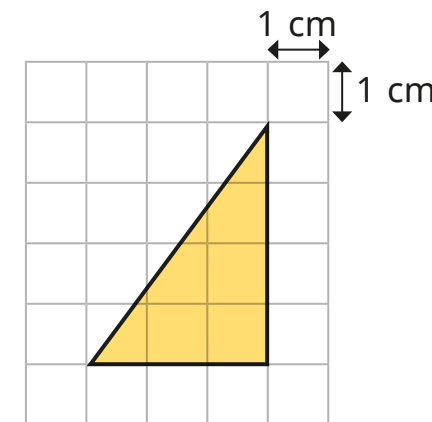
Complete the rectangle.

1 cm

1 cm

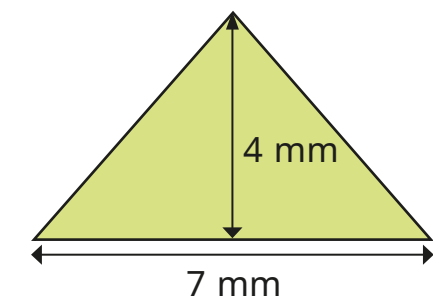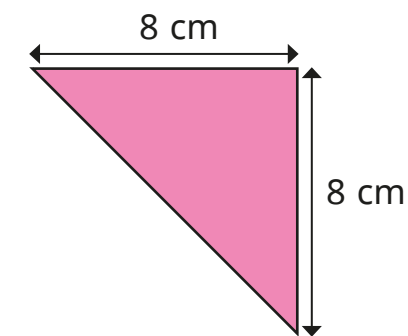*2 marks*
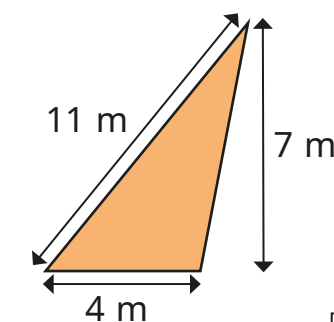
1 mark

3 Tick the shapes that have an area of 80 cm²

8 cm

1 cm

10 cm

8 cm

9 cm

9 cm

20 cm

4 cm

2 marks

4 Work out the area of each triangle.

1 cm

1 cm

4 mm

7 mm

□ cm²

□ mm²

8 cm

8 cm

11 m

7 m

4 m

□ cm²

□ m²

4 marks

5

6 cm, 5 cm, 10 cm (parallelogram)
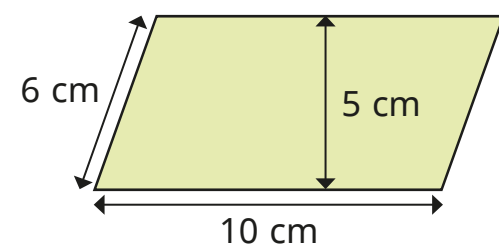
The area of the parallelogram is 60 cm²

What mistake has Max made?

_____

1 mark

What is the area of the parallelogram?

☐ cm²

1 mark

6

Rectangles that have the same area have the same perimeter.

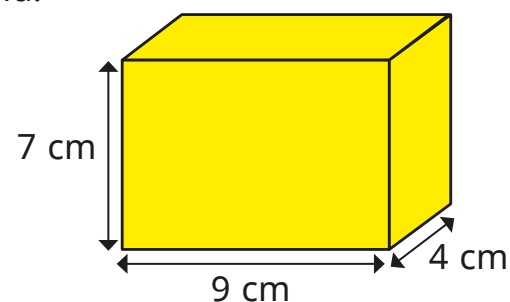Is Teddy correct? _____

Explain your answer.

_____

_____

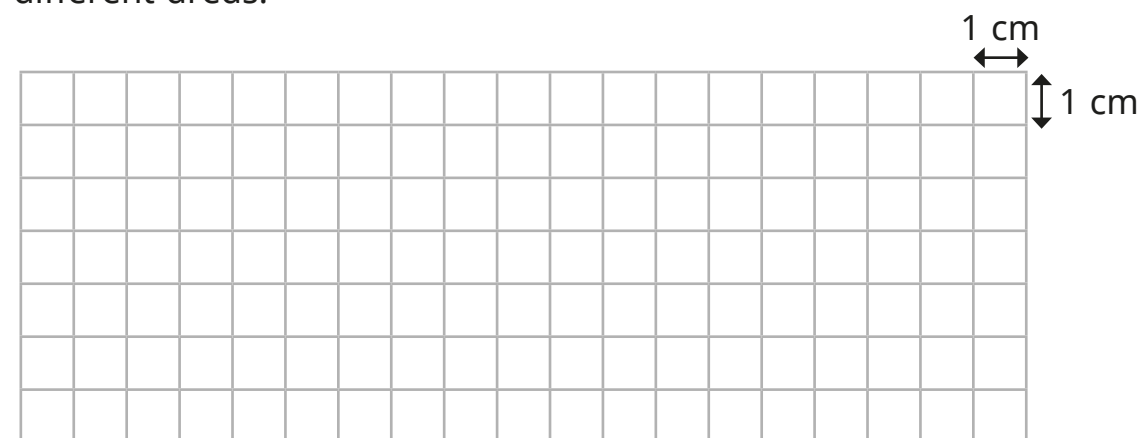**1 mark**

7 Work out the volume of each cuboid.

2 cm, 6 cm, 4 cm (pink cuboid)

7 cm, 9 cm, 4 cm (yellow cuboid)
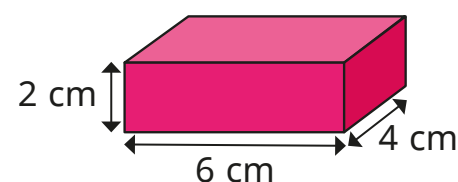
☐ cm³   ☐ cm³

2 marks

8 Draw two rectilinear shapes that have the same perimeters but different areas.

1 cm ↔
1 cm ↕

2 marks

9 Here is a shape.

35 cm, 18 cm, 30 cm, a, 19 cm, 10 cm, b
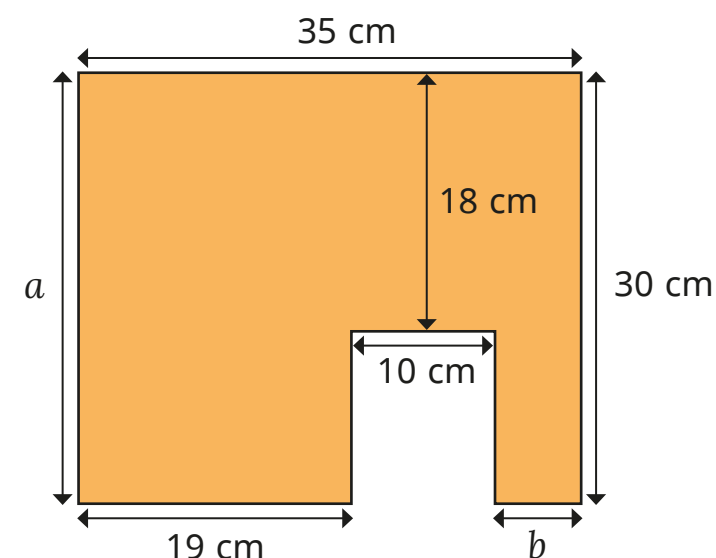
Work out the unknown lengths.

a = ☐ cm   b = ☐ cm

2 marks

What is the area of the shape?

☐ cm²

2 marks

White Rose MATHS